United States
Department of
Agriculture

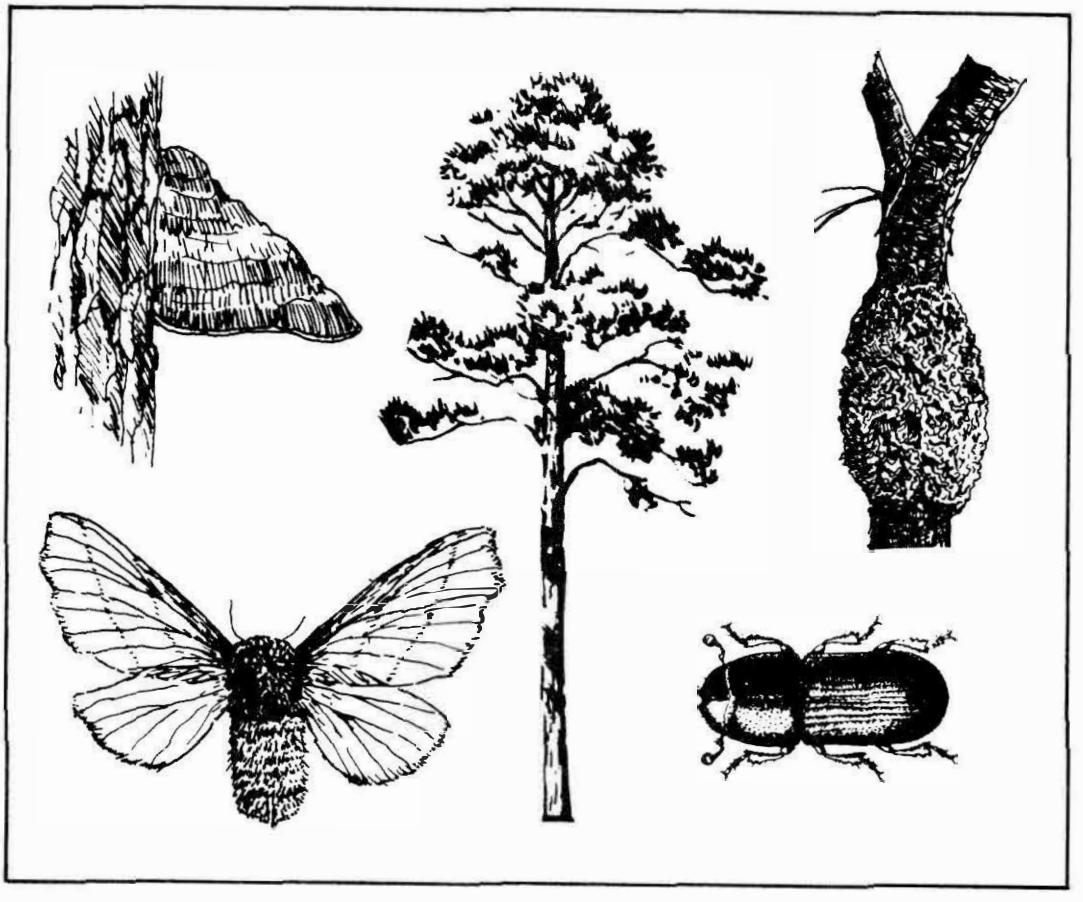
Forest Service
State & Private Forestry
Southeastern Area

Forest Pest Management

REPORT NO. 84-2-12
ALEXANDRIA FIELD OFFICE

3422
APRIL 1984

AERIAL DETECTION SURVEY OF FOREST INSECT AND DISEASE ACTIVITY, KISATCHIE NATIONAL FOREST



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AERIAL DETECTION SURVEY OF FOREST INSECT AND DISEASE ACTIVITY, KISATCHIE NATIONAL FOREST

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SOUTHERN REGION, STATE AND PRIVATE FORESTRY
USDA, FOREST SERVICE, ATLANTA, GA 30367

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LAND OWNERSHIP OR SURVEY AREA: Kisatchie National Forest, Winn and Catahoula Ranger Districts

STATE: Louisiana

AREA WITHIN SURVEY BOUNDARY: 165,291 acres

DATE: April 9, 1984

SURVEY CREW: Wesley Nettleton, Erich Vallery (Southern Forest Experiment Station), Joe Williams (Catahoula Ranger District)

REPORT PREPARED BY: Wesley Nettleton

SURVEY OBJECTIVES

To detect and accurately map areas of mortality due to southern pine beetle, *Dendroctonus frontalis* Zimm., that has occurred within the boundaries of the Catahoula and South Winn Ranger Districts.

RESULTS AND DISCUSSION

A total of 31 multiple tree mortality spots thought to be caused by southern pine beetle were detected on the south part of the Winn Ranger District and 11 on the northern part of the Catahoula Ranger District (Table 1). In spite of the fact that the majority of the spots are estimated to be less than 25 trees in size, Forest Pest Management feels that a concerted effort should be made to locate these infestations and determine if spot growth is occurring. An agressive control effort would be warranted if most of these spots are active, particularly since there may be more spots present in which the tree crowns have not yet faded. This area has a history of southern pine beetle problems including an outbreak in the summer of 1983 (Connor, Smith and Wallace).

For further assistance, please contact:

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Table 1. Summary of Aerial Survey Data, Kisatchie National Forest, Louisiana, April 9, 1984.

Ownership:	Infestation Size (# Trees)							
	2 - 25		26 - 50		51 - 100		100 +	
	Spots	Trees	Spots	Trees	Spots	Trees	Spots	Trees
Winn Ranger District	24	229	4	152	2	175	1	200
Catahoula Ranger District	7	88	1	30	3	215	-	-

REFERENCE

Connor, M. D.; Smith, J. D.; Wallace, H. N. Biological evaluation of southern pine beetle on the Catahoula and Winn Ranger Districts, Kisatchie National Forest. Rep. No. SA 84-2-6. Alexandria, LA: U.S. Department of Agriculture, Forest Service, Forest Pest Management; 1983. 9 p.